

Please type a plus sign (+) inside this box →

PTO/SB/21(08-01)

Approval for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/010,720
		Filing Date	Nov 13, 2001
		First Named Inventor	Walke, D. Wade
		Group Art Unit	1645
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	9	Attorney Docket Number	LEX-0382-USA

RECEIVED

NOV 21 2002
TECH CENTER 1600/2900

ENCLOSURES (check all that apply)

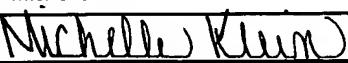
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <ul style="list-style-type: none"> - Return Postcard - PTO1449 and copies of 115 references cited
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		Remarks
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		REFERENCES CITED IN (4) BINDERS

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Lexicon Genetics Incorporated Lance K. Ishimoto Reg. No. 41,866	
Signature	 24231 PATENT TRADEMARK OFFICE	
Date	November 14, 2002	

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Arlington, VA 22202 on this date:

Typed or printed name	Michelle Klein
Signature	
Date	November 14, 2002

RECEIVED

NOV 21 2002

JTECH CENTER 1600/2800

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant(s): Walke et al.

Application No.: 10/010,720

Filed: November 13, 2001

Group Art Unit: 1645

Title: Novel Human Kinases and Polynucleotides
Encoding the Same, and Uses Thereof

Examiner: Not Yet Assigned

Attorney Docket No.: LEX-0382-USA

Assistant Commissioner for Patents
Arlington, VA 22202
Box DD

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.97(b), or

(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

under 37 CFR 1.97(c) together with either a:

Certification under 37 CFR 1.97(e), or

a \$240.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97(d) together with a:

Certification under 37 CFR 1.97(e), and

a petition under 37 CFR 1.97(d)(2)(ii), and

a \$130.00 petition fee set forth in 37 CFR 1.17(i)(1).

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.



24231

PATENT TRADEMARK OFFICE

Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

The Commissioner is hereby authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement to Lexicon Genetics Deposit Account No. 50-0892. A copy of this sheet is enclosed.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

November 14, 2002
Date

Lance K. Ishimoto *Peter G. Soderstrom*
Lance K. Ishimoto Reg. No. 41,866

LEXICON GENETICS INCORPORATED
8800 Technology Forest Place
The Woodlands, TX 77381
(281) 863-3333



24231
PATENT TRADEMARK OFFICE

Please type a plus sign (+) inside this box → □

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

of

4

Application Number	10/010,720
Filing Date	November 13, 2001
First Named Inventor	Walke
Group Art Unit	1645
Examiner Name	Not Yet Assigned

Attorney Docket Number LEX-0382-USA

NOV 21 2001

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AA	4,190,496			Rubenstein et al	02/26/80	
AB	4,215,051			Schroeder et al	07/29/80	
AC	4,376,110			David et al	03/08/83	
AD	4,594,595			Struckman	06/10/86	
AE	4,631,211			Houghten	12/23/86	
AF	4,683,195			Mullis et al	07/28/87	
AG	4,683,202			Mullis	07/28/87	
AH	4,689,405			Frank et al	08/25/87	
AI	4,713,326			Dattagupta et al	12/15/87	
AJ	4,800,159			Mullis et al	01/24/89	
AK	4,873,191			Wagner et al	10/10/89	
AL	4,946,778			Ladner et al	08/07/90	
AM	5,075,217			Weber	12/24/91	
AN	5,252,743			Barrett et al	10/12/93	
AO	5,272,057			Smulson et al	12/21/93	
AP	5,283,173			Fields et al	02/01/94	
AQ	5,364,759			Caskey et al	11/15/94	
AR	5,424,186			Fodor et al	06/13/95	
AS	5,445,934			Fodor et al	08/29/95	
AT	5,459,127			Felgner et al	10/17/95	
AU	5,464,764			Capecci et al	11/07/95	
AV	5,468,614			Fields et al	11/21/95	
AW	5,487,992			Capecci et al	01/30/96	
AX	5,491,084			Chalfie et al	02/13/96	
AY	5,556,752			Lockhart et al	09/17/96	
AZ	5,625,048			Tsien et al	04/29/97	
BA	5,627,059			Capecci et al	05/06/97	
BB	5,631,153			Capecci et al	05/20/97	
BC	5,667,973			Fields et al	09/16/97	
BD	5,700,637			Southern	12/23/97	
BE	5,744,305			Fodor et al	04/28/98	
BF	5,777,079			Tsien et al	07/07/98	
BG	5,789,215			Berns et al	08/04/98	
BH	5,795,737			Seed et al	08/18/98	
BI	5,804,387			Cormack et al	09/08/98	
BJ	5,830,721			Stemmer et al	11/03/98	
BK	5,837,458			Minshull et al	11/17/98	
BL	5,874,304			Zolotukhin et al	02/23/99	
BM	5,877,397			Lonberg et al	03/02/99	
BN	5,948,767			Scheule et al.	09/07/99	
BO	5,958,713			Thastrup et al	09/28/99	
BP	5,968,750			Zolotukhin et al	10/19/99	
BQ	5,976,796			Szalay et al	11/02/99	
BR	6,020,192			Muzyczka et al	02/01/00	

RECEIVED

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/010,720
Filing Date	November 13, 2001
0First Named Inventor	Walke
Group Art Unit	1645
Examiner Name	Not Yet Assigned

JC16

Set

2

of

4

Attorney Docket Number

LEX-0382-USA

NOV 20 2002
PATENT TRADEMARK OFFICE
RECEIVED

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
BS	6,027,881			Pavlakis et al	02/22/00	
BT	6,054,321			Tsien et al	04/25/00	
BU	6,075,181			Kucherlapati et al	06/13/00	
BV	6,087,555			Dunstan et al	07/11/00	
BW	6,096,865			Michaels	08/01/00	
BX	6,110,490			Thierry	08/29/00	
BY	6,136,566			Sands et al	10/24/00	
BZ	6,139,833			Burgess et al	10/31/00	
CA	6,146,826			Chalfie et al	11/14/00	
CB	6,150,584			Kucherlapati et al.	11/21/00	
CC	6,172,188			Thastrup et al	01/09/01	
CD	6,207,371			Zambrowicz et al	03/27/01	
CE	6,265,548			Pavlakis et al	07/24/01	

TECH CENTER 1600/200 NOV 11 2002 RECEIVED

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	CF	Askew et al, 1989, "Molecular Recognition with Convergent Functional Groups, 6. Synthetic and Structural Studies with a Model Receptor for Nucleic Acid Components", J. Am. Chem. Soc. 111:1082-1090.				T ²
	CG	Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.				
	CH	Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", Methods in Enzymology 153:516-544.				
	CI	Brisson et al, 1984, "Expression of a bacterial gene in plants by using a viral vector", Nature 310:511-514.				
	CJ	Broglie et al, 1984, "Light-Regulated Expression of a Pea Ribulose-1,5-Bisphosphate Carboxylase Small Subunit Gene in Transformed Plant Cells", Science 224: 838-843.				
	CK	Chien et al, 1991, "The two-hybrid system: A method to identify and clone genes for proteins that interact with a protein of interest", Proc. Natl. Acad. Sci. USA 88:9578-9582.				
	CL	Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.				
	CM	Coruzzi et al, 1984, "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1,5-bisphosphate carboxylase", EMBO Journal 3(8):1671-1679.				
	CN	Cote et al, 1983, "Generation of human monoclonal antibodies reactive with cellular antigens", PNAS 80:2026-2030.				
	CO	Gautier et al, 1987, " α -DNA IV: α -anomeric and β -anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", Nucleic Acids Research 15(16):6625-6641.				
	CP	Gordon, 1989, "Transgenic Animals", International Review of Cytology, 115:171-229.				
	CQ	Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.				
	CR	Gu et al, 1994, "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting", Science 265:103-106.				

Examiner Signature	Date Considered
--------------------	-----------------

Please type a plus sign (+) inside this box → Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TECH CENTER 1600/2000
NOV 21 2002

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/010,720
Sheet	3	of	4	Filing Date	November 13, 2001
				First Named Inventor	Walke
				Group Art Unit	1645
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	LEX-0382-USA

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CS	Gurley et al, 1986, "Upstream Sequences Required for Efficient Expression of a Soybean Heat Shock Gene", Mol. & Cell. Biology 6(2):559-565.			T ²
	CT	Houghten et al, 1991, "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", Nature 354:84-86.			
	CU	Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.			
	CV	Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.			
	CW	Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and R Nase H", FEBS Letters 215(2):327-330.			
	CX	Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.			
	CY	Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.			
	CZ	Irwin, 1968, "Comprehensive Observational Assessment: Ia. A Systematic, Quantitative Procedure for Assessing the Behavioral and Physiologic State of the Mouse", Psychopharmacologia (Ber.) 13:222-257.			
	DA	Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS 88:8972-8976.			
	DB	Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.			
	DC	Krege et al, 1995, "A Noninvasive Computerized Tail-Cuff System for Measuring Blood Pressure in Mice", Hypertension 25(5):1111-1115.			
	DD	Lakso et al, 1992, "Targeted oncogene activation by site-specific recombination in transgenic mice", Proc. Natl. Acad. Sci. USA 89:6232-6236.			
	DE	Lam et al, 1991, "A new type of synthetic peptide library for identifying ligand-binding activity", Nature 354:82-84.			
	DF	Lavitrano et al, 1989, "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell 57:717-723.			
	DG	Lewis et al, 1989, "Automated site-directed drug design: the concept of spacer skeletons for primary structure generation", Proc. R. Soc. Lond. B 236:125-140.			
	DH	Lewis et al, 1989, "Automated site-directed drug design: the formation of molecular templates in primary structure generation", Proc. R. Soc. Lond. B 236:141-162.			
	DI	Lo, 1983, "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations without Tandem Insertions", Mol. & Cell. Biology 3(10):1803-1814.			
	DJ	Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.			
	DK	Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster aprt Gene", Cell 22:817-823.			
	DL	Luo et al, 1997, "Mammalian Two-Hybrid System: A Complementary Approach to the Yeast Two-Hybrid System", BioTechniques 22:305-352.			
	DM	McKinlay et al, 1989, "Rational Design of Antiviral Agents", Annu. Rev. Pharmacol. Toxicol. 29:111-122.			
	DN	Morrison and Walsh, 1988, "The Behavior and Significance of Slow-Binding Enzyme Inhibitors", Adv. Enzymol. Relat. Areas Mol. Biol. 61:201-301.			
	DO	Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.			
	DP	Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.			

RECEIVED

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	10/010,720
				Filing Date	November 13, 2001
				First Named Inventor	Walke
				Group Art Unit	1645
				Examiner Name	Not Yet Assigned
Sheet 1 of 1	4	of	4	Attorney Docket Number	LEX-0382-USA

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	DQ	Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.			T ²
	DR	Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.			
	DS	O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.			
	DT	Ripka, 1988, "Computers picture the perfect drug", New Scientist 16:54-57.			
	DU	Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.			
	DV	Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.			
	DW	Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.			
	DX	Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.			
	DY	Songyang et al, 1993, "SH2 Domains Recognize Specific Phosphopeptide Sequences", Cell 72:767-778.			
	DZ	Stein et al, 1988, "Physicochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.			
	EA	Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.			
	EB	Takamatsu et al, 1987, "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA", EMBO Journal 6(2):307-311.			
	EC	Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314:452-454.			
	ED	Thompson et al, 1989, "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells", Cell 56:313-321.			
	EE	Van Der Putten et al, 1985, "Efficient insertion of genes into the mouse germ line via retroviral vectors", Proc. Natl. Acad. Sci. USA 82:6148-6152.			
	EF	Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemistry 264(10):5503-5509.			
	EG	Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli", Nature 341:544-546.			
	EH	Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", Cell 11:223-232.			
	EI	Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", Proc. Natl. Acad. Sci. USA 77(6):3567-3570.			
	EJ	Wilson et al, 2001, "Human Hypertension Caused by Mutations in WNK Kinases", Science 293:1107-1112.			
	EK	Williams and Cole, 2001, "Kinase chips hit the proteomics era", TRENDS in Biochemical Sciences 26(5):271-273.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.